

Title (en)
USER SELECTION FOR MU-MIMO

Title (de)
BENUTZERAUSWAHL FÜR MU-MIMO

Title (fr)
SÉLECTION D'UTILISATEUR POUR MU-MIMO

Publication
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Application
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Abstract (en)
[origin: WO2022174885A1] A method is disclosed of selecting users for multi user multiple-input multiple-output (MU- MIMO) communication from an initial set of potential users. The method comprises repeating the following steps in successive iterations until a stopping criterion is met: determining a channel correlation metric for each user in the set of potential users, reducing the set of potential users by exclusion of a user based on the channel correlation metric, and calculating a performance metric of the set of potential users. The method also comprises selecting users corresponding to one of the sets of potential users, wherein the selection is based on a comparison of the calculated performance metrics of the sets of potential users. The channel correlation metric for a user may comprise one or more of: a channel filter norm for the user, a channel norm for the user, a channel gain for the user, pair-wise correlations between the user and one or more other users of the set of potential users, and a channel eigenvalue for the user. The performance metric may comprise one or more of: a sum-rate, a per-user-rate, an average error rate, a maximum error rate, a per-user error rate, and a sum-correlation. Corresponding apparatus, network node and computer program product are also disclosed.

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